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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/817,197	03/27/2001		Naoya Hayamizu	04329.2558 9083	
22852	7590	04/20/2004		EXAM	INER
FINNEGA	N, HEND	ERSON, FARAE	MARKOFF, ALEXANDER		
LLP				ABELBUE	DARED MAINER
1300 I STRI	EET, NW		ART UNIT	PAPER NUMBER	
WASHING	ron, DC	20005	1746		

DATE MAILED: 04/20/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		<u></u>				
	Application No.	Applicant(s)				
	09/817,197	HAYAMIZU, NAOYA				
Office Action Summary	Examiner	Art Unit				
	Alexander Markoff	1746				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	correspondence address				
	VIC CET TO EVOIDE AMONTH.	S) FROM				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be tin by within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>03 F</u>	ebruary 2004.					
·	s action is non-final.					
3) Since this application is in condition for allowa		osecution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-10,12-18 and 20-42</u> is/are pending	in the application.					
4a) Of the above claim(s) <u>13-18 and 21-23</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) <u>1-10, 12, 20 and 24-42</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	or election requirement.					
Application Papers						
9) The specification is objected to by the Examine	er.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the E						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C. § 119(a	ı)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:	, , , , , , , , , , , , , , , , , , , ,					
1. Certified copies of the priority documen	ts have been received.					
2. Certified copies of the priority documen		ion No				
3. Copies of the certified copies of the price						
application from the International Burea						
* See the attached detailed Office action for a list	t of the certified copies not receive	ed.				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D	ate				
 Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 	6) Notice of Informal I	Patent Application (PTO-152)				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

- 1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 2. Claims 1-10, 12, 20, and 24-42 are rejected under 35 U.S.C. 102(e) as being anticipated by Puskas (US 6,313,565).

Puskas teaches a method as claimed. See entire the reference, especially columns 3-7, 9, and 13-14 and Figures 6, 8b, 8c.

Response to Arguments

3. Applicant's arguments filed 02/03/04 have been fully considered but they are not persuasive. The applicants amended the claims to recite periodical application of the wave having a single oscillation frequency and argue that Puskas does not teach such application.

This is not persuasive because Puskas teach such concept. See cited part of the document, especially columns 4-6 and Fig. 6. It is noted that the claims are written using the language "comprising" and thereby do not exclude application of any other waves.

As to the claims requiring two different waves the applicants argue that Puskas does not teach such application. This is not persuasive because in contrast to the applicants' arguments the document teaches such concept. See the cited parts of the reference, especially columns 4-6, Fig. 6 and Figs 8a-b. As to the argument that Puskas does not teach reducing the vibration of the object: this is not persuasive, because

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Puskas teaches that application of different waves reduces the intense cavitation region. See at least column 13, lines 29-34. Since the intense of the cavitation is reduced the vibration would also be reduced.

It appears that the applicants' arguments are more specific than the claims. If the applicants would like to discuss the teaching of the prior art and the claims with the examiner a request for the interview would be granted.

Conclusion

4. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alexander Markoff whose telephone number is 571-272-1304. The examiner can normally be reached on Monday-Friday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Randy P Gulakowski can be reached on 571-272-1302. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Alexander Markoff Primary Examiner Art Unit 1746

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ALEXANDER MARKOFF PRIMARY EXAMINER